INTERNATIONAL SEARCH REPORT

International application No.

PCT/IB04/03027

| A. CLASSIFICATION OF SUBJECT MATTER IPC(7): D01B 1/04 US CL: 019/40, 41; 451/032, 035, 326 According to International Patent Classification (IPC) or to both national classification and IPC | | | |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------|--|
| B. FIELDS SEARCHED | | | |
| Minimum documentation searched (classification system followed by classification symbols) U.S.: 019/40, 41; 451/032, 035, 326 | | | |
| Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched | | | |
| Electronic data base consulted during the international search (name of data base and, where practicable, search terms used) Please See Continuation Sheet | | | |
| C. DOCUMENTS CONSIDERED TO BE RELEVANT | | | |
| Category * Citation of document, with indication, where | appropriate, of the relevant passages | Relevant to claim No. | |
| X US 2,433,178 A (WARE) 23 December 1947 (23. Y | 12.1947) see entire document | 13 | |
| X DE 3619952 A1 (HUPFELD) 17 December 1987 | DE 3619952 A1 (HUPFELD) 17 December 1987 (17.12.1987) see entire document | | |
| | JP 3-160908 A (MATSUMOTO)10 July 1991 (10.07.1991) see entire document | | |
| Y | | 5-10 | |
| A US 1,014,518 A (REID) 09 January 1912 (09.01.1912) see entire document | | I-13 | |
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| Further documents are listed in the continuation of Box C. | See patent family annex. | | |
| Special categories of cited documents: "A" document defining the general state of the art which is not considered to be of particular relevance | "T" later document published after the inter date and not in conflict with the applica principle or theory underlying the inver- | ation but cited to understand the | |
| "E" earlier application or patent published on or after the international filling date | "X" document of particular relevance; the considered novel or cannot be consider when the document is taken alone | | |
| "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) | "Y" document of particular relevance; the considered to involve an inventive step combined with one or more other such | when the document is | |
| "O" document referring to an oral disclosure, use, exhibition or other means | being obvious to a person skilled in the | | |
| P" document published prior to the international filing date but later than the "&" document member of the same patent family priority date claimed | | | |
| Date of the actual completion of the international search 31 March 2005 (31.03.2005) | Date of mailing of the international sear | ch report | |
| Name and mailing address of the ISA/US | Authorized officer | | |
| Mail Stop PCT, Atm: ISA/US Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450 | M Rachuba Telephone No. 571-272-4485 | | |
| Facsimile No. (703) 305-3230 | 1 | | |

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| Continuation of B. FIELDS SEARCHED Item 3: EAST | |
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